Message

From: Craig, Harry [Craig.Harry@epa.gov]
Sent: 4/19/2017 5:34:38 PM
To: Shuster, Kenneth [Shuster.Kenneth@epa.gov]
CC: Gaines, Jeff [Gaines.Jeff@epa.gov]; Crosby-Vega, Terri [Crosby-Vega.Terri@epa.gov]
Subject: RE: April 11, 2017 Open Burning At Holston Army Ammunition Plant-Photo for your records
Attachments: Propellant-HydrolysisTreatment.pdf

Ken,

Here is another good example of full scale treatment of alkaline (base) hydrolysis of rocket propellants containing energetics such as HMX, NG, and ammonium perchlorate.

Harry

From: Craig, Harry
Sent: Wednesday, April 19, 2017 8:45 AM
To: Shuster, Kenneth <Shuster.Kenneth@epa.gov>
Cc: Gaines, Jeff <Gaines.Jeff@epa.gov>; Crosby-Vega, Terri <Crosby-Vega.Terri@epa.gov>
Subject: FW: April 11, 2017 Open Burning At Holston Army Ammunition Plant-Photo for your records

Ken,

I'm not convinced that SCWO is the preferred technology in this situation. SCWO requires that wastes be in slurry form to treat it, and the process is very corrosive to materials and has problems with salt build up. I believe that rotary kiln incineration w/air pollution controls or alkaline hydrolysis would be effective and far less expensive technologies as alternatives to treat bulk RDX, HMX, and PBXs, and materials contaminated with these energetics.

Holston AAP manufactures RDX and HMX in the U.S. Probably should check what RCRA and Air Permits (if any) that Holston AAP currently has.

Regards,

Harry

From: Mark Toohey [mailto:m **Personal Email / Ex. 6**
Sent: Tuesday, April 18, 2017 6:05 PM
To: Akers, Brad <Akers.Brad@epa.gov>; Craig, Harry <Craig.Harry@epa.gov>; Crosby-Vega, Terri <Crosby-Vega.Terri@epa.gov>; curry.ron@epa.gov; Feely, Ken <Feely.Ken@epa.gov>; Gaines, Jeff <Gaines.Jeff@epa.gov>; Galbraith, Michael <Galbraith.Michael@epa.gov>; Gray, David <gray.david@epa.gov>; lesser.ben@epa.gov; Cooke, Maryt <Cooke.Maryt@epa.gov>; Page, Lee <Page.Lee@epa.gov>; Palumbo, Janice <Palumbo.Jan@epa.gov>; Gerhard, Sasha <Gerhard.Sasha@epa.gov>; Sasseville, Sonya <Sasseville.Sonya@epa.gov>; Wanslow, Julie <Wanslow.Julie@epa.gov>; Waterson, Sara <Waterson.Sara@epa.gov>; Watson, Sarah <Watson.Sarah@epa.gov>; Garfinkel, Wayne <Garfinkel.Wayne@epa.gov>; Wilson, Michaelle <Wilson.Michaelle@epa.gov>
Subject: Fwd: April 11, 2017 Open Burning At Holston Army Ammunition Plant-Photo for your records

Ladies and Gentlemen,

We request a formal investigation of exactly what was being open air burned at HSAAP as indicated in this photograph.

The Tennessee Department of Environment and Conservation has thus far performed a perfunctory investigation which
has not yet been concluded. Additionally, we would like a response which includes the reason that HSAAP is not using
Super Critical Water Oxidation as an alternative to open burning as recommended in a March 2012 report from the U.S.
Army Corps of Engineers.

Thank you for your anticipated cooperation.

Mark and Connie Toohey
Personal Phone / Ex. 6

---------- Forwarded message ----------
From: **Mark Toohey** <Personal Email / Ex. 6
Date: Tue, Apr 18, 2017 at 8:36 PM
Subject: Fwd: April 11, 2017 Open Burning At Holston Army Ammunition Plant-Photo for your records
To: Laura Olah <info@cswab.org>

Hi, Laura,

Here is a picture Connie took on April 11, 2017 of open burning at HSAAP while there was an open burn ban issued due to fire hazard.

They claim that it is a cage burn. You might have to scroll around on the picture to see the plume.

Best regards

Mark and Connie
---------- Forwarded message ----------
From: **Mark Toohey** <Personal Email / Ex. 6
Date: Tue, Apr 18, 2017 at 8:25 PM
Subject: April 11, 2017 Open Burning At Holston Army Ammunition Plant-Photo for your records
To: Ronnie Wilhoit <ronnie.wilhoit@tn.gov>